2nd & final Bill

Original/Duplicate/Triplicate

SBR No :
Date :

CONTRACT CERTIFICATE
(For Other Works)

BR No :
Date :

No. Date:

Division: Electrical (DASARAHALLY) Sub- Division:

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket Name of Work (as per sanctioned estimate) Providing and Fixing of Street light Fittings Timers Control Wires etc in Ward no 12 and 13 Village areas in Dasarahalli Assembly Constituency

Contractor and Full Address: Technical Manager-2 (BBMP) KRIDL

Work Order No: : EE/(Elec)/DZ/WO/0000027/2017-18 Dated :21-03-2018

Reference to Agreement Date ..... Job No:- 012-18-000053

5128917794

Certified that the measurements were taken by me on 20/7/2018 and recorded of pages ..... to ..... of Measurement Book No 5128/17-18 and that the work is satisfactorily executed.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

T.N. Baddi
Officer in charge of work
JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Certified that the measurements were taken by me on 20/7/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-division Officer
ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

101)	Total value of work done or supplies as per account within	Total Bill 299952 =
102)	Deduct amount to be held in reserve being .....percent Rs.....	Previous 268452 =
103)	" Balance	Present 315370 =
104)	Deduct payment :	IT 2%. 6310 =
oo)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....	LWCF 1%. 3154 =
	Amount adjusted towards cash advance recovery of	GST 0.1%. 316 =
pp)	Payments cost store or other material supplied.	SD 5%. 15770 =
	Now made recovery amount creditable to this/ other work	Fine 820 =
	Amount paid on this bill cheque/cash	TD 26370 =
105)	Balance being unpaid value of work done held in reserve	NET 289000 =
6)	Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments	
7)	Net amount due to or from contractor	
	Unadjusted items	
8)	Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

(For use in the office)

Audited and admitted for Rs. 315370/-

Passed by Cheque for Rs. 289000/-

(Two lakh eighty nine thousand)

Dated ..... Signature of contractor

Paid by me by cheque No..... Dated .....

Cash Rs. 26370/- Dated.....

by adjustment Rs. .....

Initials of Officer making payment

Executive Engineer (Ele)

Accounts Superintendent Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

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Sl. No	Description of Item	Unit
	Name Of Work:- Providing and Fixing of Street light Fittings Timers Control Wires etc in Ward no 12 and 13 Village areas in Dasarahalli Assembly Constituency	
1	LED Street light Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & FixtureEfficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts.	Nos
2	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	Nos
3	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	Nos
4	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded **Aluminium** unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	Mtrs
5	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).	Mtr
6	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM. A)1.1 KV Pin Insulator	Each
7	No. 8 Strain Insulator	Each
8	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM. RCC Clamp	Each
9	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Each
10	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Each
11	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets200mmx200mmx98mm	Each

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Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
83	1553760.00	0	18720.00	0.00	83	1553760.00	
25	781250.00	0	31250.00	0.00	25	781250.00	
65	58045.00	43	893.00	38399.00	108	96444.00	108
200	1500.00	95	7.50	712.50	295	2212.50	300
500	15000.00	498	30.00	14940.00	998	29940.00	1000
15	660.00	14	44.00	616.00	29	1276.00	29
10	140.00	15	14.00	210.00	25	350.00	25
20	1680.00	13	84.00	1092.00	33	2772.00	34
20	6120.00	14	306.00	4284.00	34	10404.00	34
0		31	4044.00	125364.00	31	125364.00	31
0		31	2178.00	67518.00	31	67518.00	31

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12	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr.
13	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 16 + 1 X 25 SQ.MM	Per Mtr
	Total Rs	
	Add KRIDL Charges 11%	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

T.N. Baddy

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXEC... ...INEER (Ele)
Bruhath Banga... ...ara Palike
Dasarahalli Z... ...alore

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0		30	263.00	7890.00	30	7890.00	30
0		251	92.00	23092.00	251	23092.00	253
	2418155.00			**284117.50**		**2702272.50**	
	265997.05			31252.925		297249.975	
	2684152.05			**315370.43**		**2999522.48**	

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